

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 54-116417

(43)Date of publication of application : 10.09.1979

(51)Int.Cl.

D01D 3/00

(21)Application number : 53-023582

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(22)Date of filing : 03.03.1978

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(54) SPINNERET FOR THREE-COMPONENT ISLAND-IN-SEA TYPE COMPOSITE FIBERS

(57)Abstract:

PURPOSE: The title spinneret designed to spin three-component island-in-sea type composite fibers, wherein the island components comprise two types of polymers industrially smoothly.

CONSTITUTION: The polymer A, one of the island components, is fed from the holes 1 through the pipes 3 the communicating holes 5 and 6 to the funnel 8. The other island component B is fed from the hole 10 through the space 11 and the upper annular parts, joined to the polymer A which flows through the pipes 3, and extruded through the orifice 9. The sea component C is passed through the hole 12, space 13 and the annular parts between the pipes 6 and the holes 7, and joined to the primary composite streams, which flow through the pipes 6 and consist of the polymers A and B, to form secondary composite streams wherein the primary composite streams are surrounded by the polymer C. The streams are then led to the funnel 8, and a plurality of secondary composite streams are collected and extruded through the orifice 9 into a composite fiber.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]